

ABSTRACT OF THE DISCLOSURE

A method and apparatus for using a plurality of regions of colored light to index and locate discrete targets in photogrammetry systems. The colored regions of light are used to determine a unique location on the surface of a three-dimensional object. Multiple projections of colored regions may be used to determine precise locations on the surface of the object. Each colored region may be assigned a color-numeric identified to assist in the indexing process. The process is suitable for determining the shape of aircraft, watercraft and automotive parts.